

Title (en)
Sludge settling and thickening apparatus.

Title (de)
Dekanter und Eindicker für Schlämme.

Title (fr)
Décanteur épaisseur de boue.

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Application
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Abstract (en)
A sludge decanter thickener comprises a compaction chamber for compacting the sludge by means of a helical screw discharging the compacted sludge through a hole provided with an adjustable diaphragm. The decanter is characterized in that the screw comprises at the end thereof an axial nose (4) arranged through the discharge hole (6) and cooperating with the diaphragm (5) to close said hole in the absence of sludge. The invention applies to the processing of fluid sludges charged or not with fibrous materials.

Abstract (fr)
L'invention est relative à un décanteur épaisseur de boue comprenant une chambre de compactage de la boue à l'aide d'une vis hélicoïdale refoulant la boue compactée au travers d'un orifice muni d'un diaphragme réglable. Le décanteur est caractérisé en ce que la vis comporte à son extrémité un nez axial (4) disposé au travers de l'orifice d'évacuation (6) et coopérant avec le diaphragme (5) pour obturer ledit orifice en l'absence de boue. L'invention s'applique au traitement des boues fluides chargées ou non de matières fibreuses.

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Citation (search report)

- BE 666486 A 19651103
- FR 845493 A 19390824
- FR 2138968 A1 19730105 - KRUPP GMBH
- FR 1401378 A 19650604
- FR 2197803 A1 19740329 - ZYKLOS METALLBAU KG [DE]
- FR 2321456 A1 19770318 - ALSTHOM CGEE [FR]
- US 1624385 A 19270412 - BERGEN HAROLD E
- FR 365686 A 19060914 - & EISENGIESSEREI MASCHF [FR]
- FR 2207872 A1 19740621 - SOGREAH [FR]

Cited by
US7473376B2; EP1025984A1; EP1155810A3; GB2306388A; GB2306388B; GB2306132A; GB2306132B; US5452492A; US5768744A; EP0790122A3; GB2286361A; US5611268A; GB2286361B; AU681596B2; US6505550B2; WO9407688A1; WO0046019A1; WO9729827A1

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